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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,945	11/07/2001	Masaru Watanabe	MTS-3285	4814
7590 07/27/2005			EXAMINER	
RATNER AND PRESTIA			JENKINS, DANIEL J	
One Westlakes,	Berwyn, Suite 301	•		
P.O. Box 980	·		ART UNIT	PAPER NUMBER
Valley Forge, PA 19482-0980			1742	

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/008,945	WATANABE ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Daniel J. Jenkins	1742			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on <u>05 Mar</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Extended 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1,2 and 4-18 is/are pending in the app 4a) Of the above claim(s) 10-18 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,2 and 4-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the consequence of the conseque	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	• •				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da' 5) Notice of Informal Pa 6) Other:				

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1. The Examiner has carefully considered Applicant's Response of 5/5/05. The Examiner does not find Applicant's Argument persuasive. In particular, the Examiner finds that Applicant's argument that the hole geometry is not met by the prior art is not directed to a limitation in the claims. The limitation to the concavity and convexity is met by the shape of the electrode, and in particular see Figs 7 and 12.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Publication 10-340727 (JP'727) with consideration of the Partial English Translation of an Office Action dated December 16, 2003 from the Japaneses Patent Office for JP Application No. 2001-339946.

JP'727 discloses a method of forming an electrode comprising:

providing a currect collector (2);

providing a paste (5) to both sides of the current collector with dies (3);

drying (dessicating) the applied paste [0011]; and

rolling (pressing) the dried paste [0011].

JP'727 further discloses in the detailed description of the invention and the accompanying drawings thereof the current collector in which curved portions (201) and (202) each in the shape of a strip protruding from the front and back surfaces, respectively, reading upon the terms of "concavities" and "convexities."

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JP'727 further discloses wherein a electromagnetic foil (203) in a concave state as described in Figure 3 are formed in predetermined dimensions by applying a three dimensional working on the metal foil in arrangement in parallel to each other along a direction x, as a collector having a thickness more that the metal foil.

4. Claims 2 and 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP'727.

JP'727 discloses the invention substantially as claimed (see paragraph 3 above). However, JP'727 does not disclose the relationship of electrode thickness, applied paste thickness and nozzle gap as claimed by Applicant.

JP'727 does disclose wherein the current collector has a thickness of 5-30 um (see JP'727 Claim 16), and in the third embodiment, discloses a thickness of 5-100 um. JP'727 further discloses a mold gap distance of 100-1000 um (see Detailed Description [0016].

JP'727 further discloses an example of dried electrode of 250 um (see Means [0021]. Thus JP'727 discloses ranges and examples that are within ranges of the claimed ranges of Applicant, establishing a prima facie case of obviousness, allowing one of ordinary skill to determine the overall range of coating thickness, collector thickness, and final electrode thickness based on the selection of the collector and paste materials through routine experimentation based on the desired activity of the formed electrode. It is known in the prior art that both sides of the electrode be of similar activity, arrived by even active material, determining this process parameter as controlled in the art,

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motivating one of ordinary skill to optimize the even application of the active material paste.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Jenkins Primary Examiner Art Unit 1742

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